SUP'AIR

XA 13

User's manual

SUPAIR-VLD
PARC ALTAÏS
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74650 ANNECY CHAVANOD
FRANCE

45°54.024'N / 06°04.725' E

SUPAIR manufactures its products in Europe. The majo
rity of the components used come from Europe.

Indice de révision : 20140416 EN

Thank you for your choice of a Supair XA13. We are proud to join you on your journey in our common passion : paragliding.

SUP'AIR has been designing, producing and selling accessories for free flying activities since 1984. By choosing a SUP'AIR product you benefit from almost thirty years of expertise, innovation and listening. This is also our philosophy : working endlessly to develop better products and to maintain a high quality production in Europe.

We trust that you will find this user's manual comprehensive, explicit and hopefully pleasant to read. We advise you to read it carefully !

On our website www.supair.com, you will find the last up to date information about this product. If you have any further questions, feel free to ask one of our retailers. And of course, the entire SUP'AIR team are at your disposal through info@supair.com

We wish you many safe flying and enjoyable hours, and happy landings

The SUP'AIR team

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Prototyping : Virginie BAUD, Khadija AMER
Production : Romania

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Crédits photos :
Horacio LLorens;
Bruno DELOUSTAL;
SUPAIR

Welcome to the world of lightweight performance! You have in your hands the key that opens the door to exceptional flights. The XA13 is our most persuasive invitation to adventure and with it you will be able to go higher, further and fly longer. Now, you just have to find a playground big enough !

After reading this manual, we suggest you check your harness by hanging in it before flying.

N.B : Three important icons will help you when reading this manual

Advice

Caution !

Danger !!

Technical specifications

Technical sheet

A Back height (cm)

B Leaning setting height (cm)

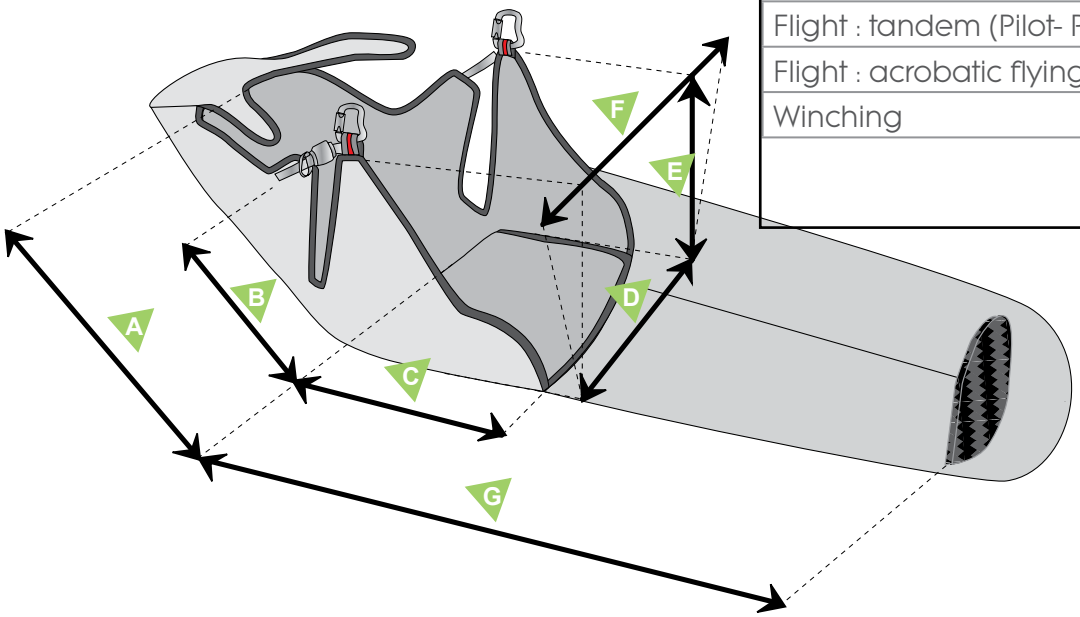
C Seat length (cm)

D Seat width (cm)

E Carabiners height (cm)

F Carabiners distance (cm)

G Speedbag length (cm)



Model	XA13 S	XA13 M	XA13 L	XA13 XL
Pilot size	155-170	165-180	175-190	185-200
Weight	60-75	70-80	75-85	75-100
Harness weight (+ carabiners+speedbar)	2330g	2370g	2390g	2482g
Designed for	Paragliding only			
Back height (cm)	60	66	71	75
Leaning setting height (cm)	38	42	44	48
Seat length (cm)	36	40	44	48
Seat width (cm)	42	44	46	49
Carabiners height (cm)	40	42	44	46
Carabiners distance (cm)	34 - 44	34 -44	34 - 44	34 - 44
Speedbag length (cm)	110-120	115-125	119-129	123-133
Impact damping system : Airbag (Volume):	Yes			
Impact damping system : Bumpair (Thickness)	Yes- 12 cm			
Homologation	EN 1651 - LTF			
Flight : tandem (Pilot- Passenger)	No-No			
Flight : acrobatic flying	No			
Winching	Yes			

Size choice

Choosing your harness' size is important. You will find here below a height/weight table that will help you in your size choice. With its hammock architecture and its "lying flat" flying position, we advise you to try out the harness under a hanging device at one of our retailers in order to choose the correct size. For a complete list of our retailers, please click here : www.supair.com

Size Weight	1m55	1m60	1m65	1m70	1m75	1m80	1m85	1m90	1m95	2m	2m05
60	S	S	S	S							
65	S	S	S	S							
70		S	S	S	M						
75		S	M	M	M	M	L	L	XL	XL	
80				M	M	L	L	XL	XL	XL	
85					L	L	XL	XL	XL	XL	
90							XL	XL	XL	XL	
95							XL	XL	XL	XL	
100								XL	XL	XL	
105											

S

M

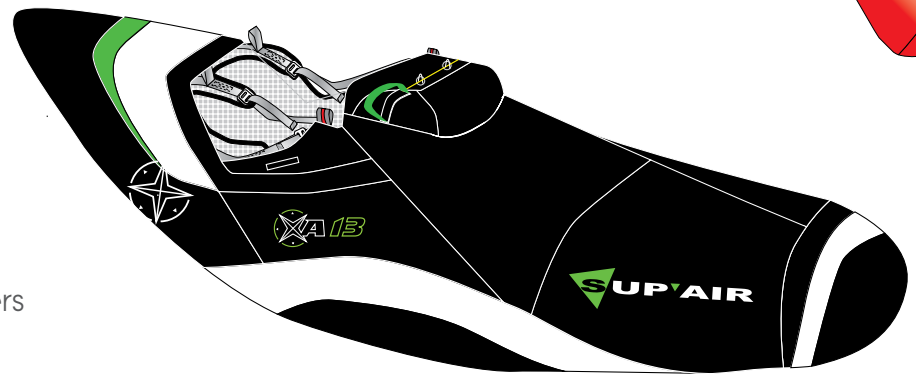
L

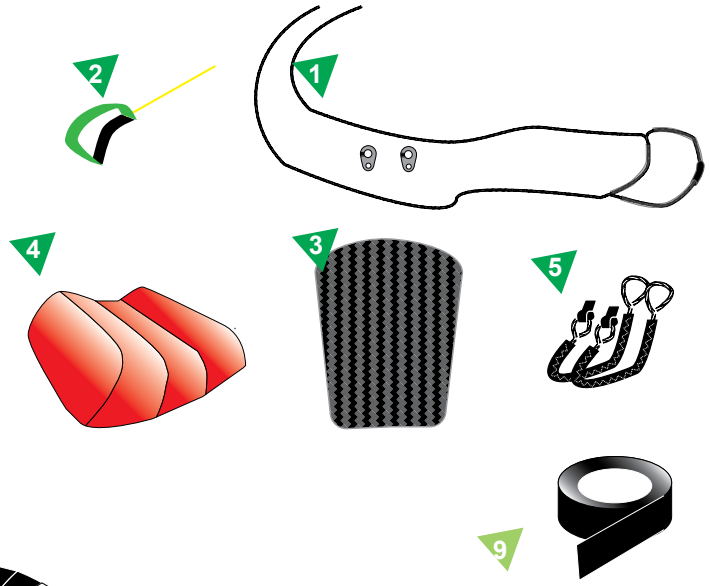
XL

Preliminary test under hanging device

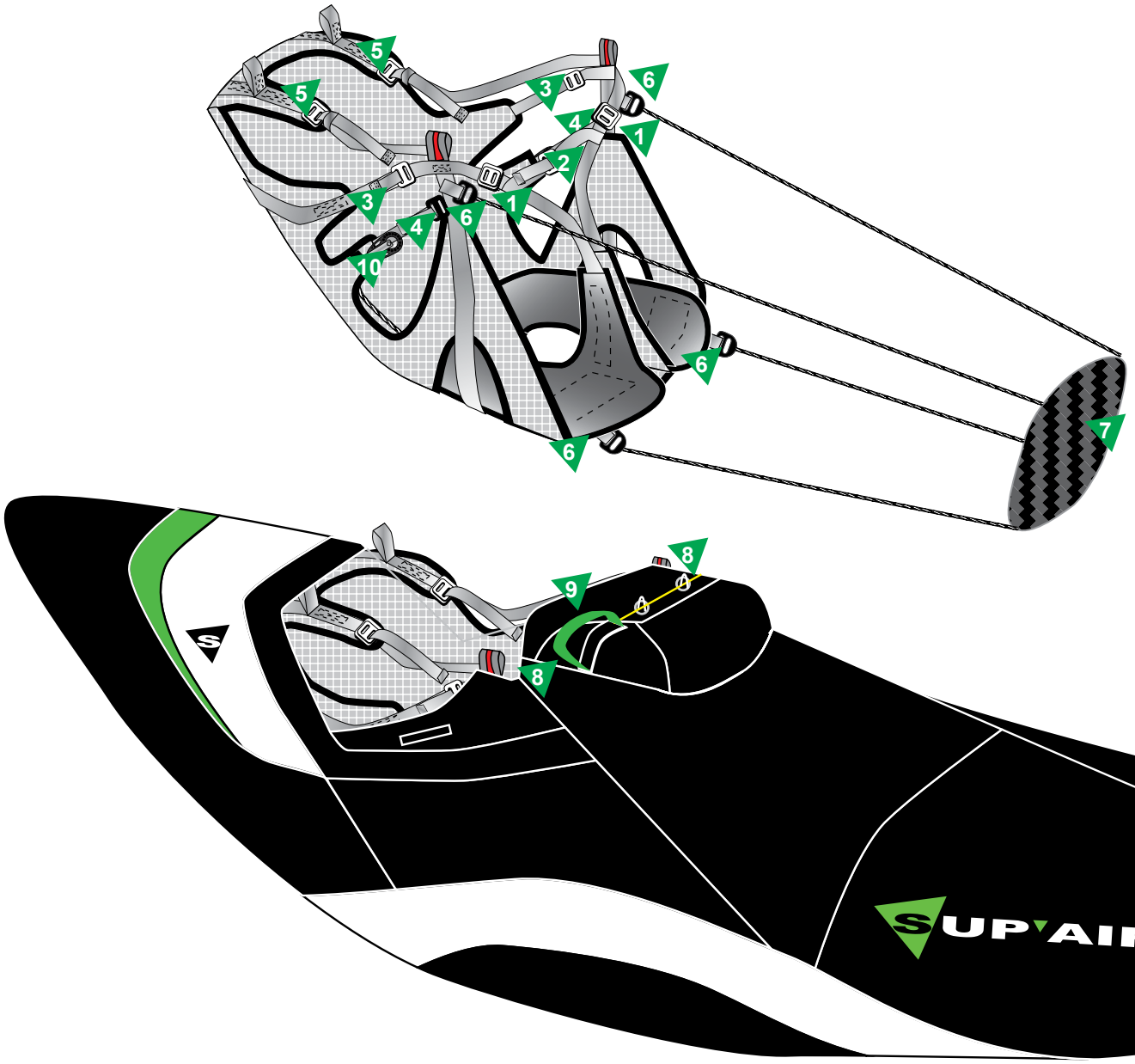
Nomenclature

1. Speedbar light
2. Rescue parachute handle, F-Side
3. Footrest
   S-M-L MPPL010
   XL MPPL024
4. BUMPAIR 12 XA13
5. Connects
6. Solo Dyneema individual risers
7. 7mm Maillon Rapide®
8. Toric ring (x2)
9. Adhesive Ripstop





Harness overview

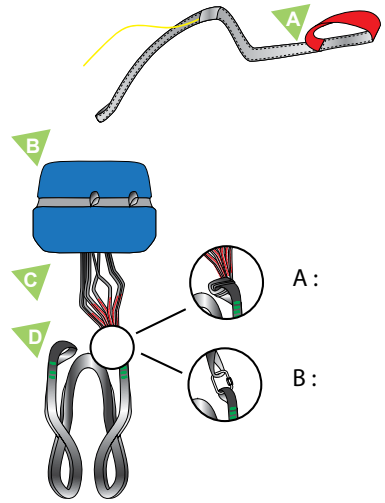


1. Thigh strap buckle
2. Ventral width adjustment
3. Leaning setting
4. Lumbar support setting
5. Shoulders'straps adjustment
6. speedbag leaning adjustment
7. Footrest
8. Speedbag closing buckles
9. Rescue parachute handle
10. Harken® Pulleys

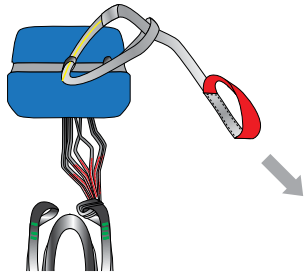
BUMPAIR 12 XA13

Connecting the handle to the rescue parachute's deployment bag

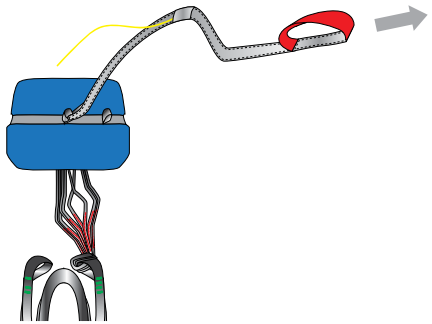
Thanks for reading carefully ! We recommend the initial rescue parachute assembly and installation is made by a qualified person.



Standard Risers : use one Maillon Rapide ® Inox 7 mm. see page 13



1. Place the handle inside the middle webbing loop and make a lark's head knot with the handle.



2. Fasten tightly the lark's head knot and verify the solidity of the link.

A XA13 rescue parachute handle

B Parachute folded according to manufacturers specification and in deployment bag.

C Parachute rigging lines

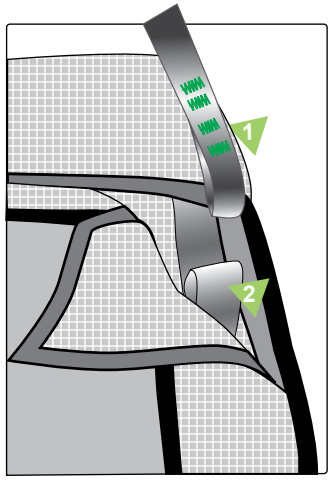
D Parachute risers

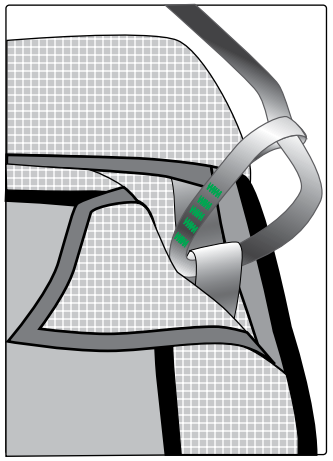
Connecting the rescue parachute risers to the harness : standard risers

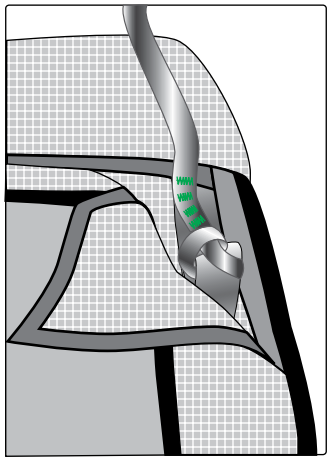
Your XA13 is fitted with light standard parachute risers

1. Make a lark's head between the risers and the webbing loop for rescue attachment.

2. Fasten the lark's head neatly



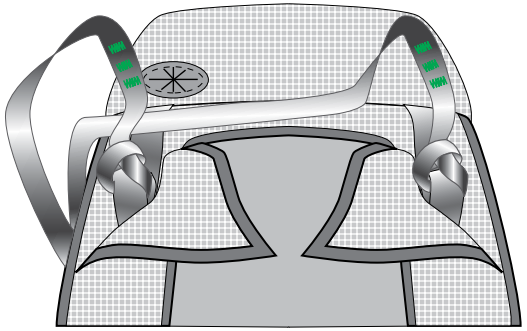


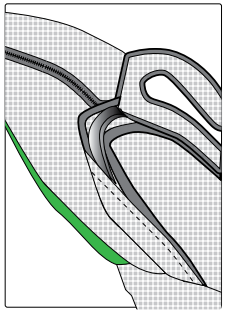


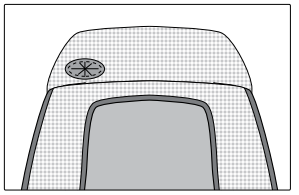
3. Neatly stow any surplus risers under the flaps.

1 Rescue parachute standard risers

2 Webbing loop for rescue risers attachment





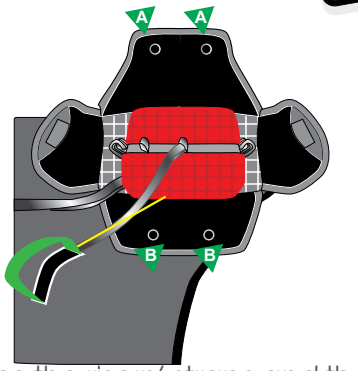


Placing the parachute in the rescue parachute pocket

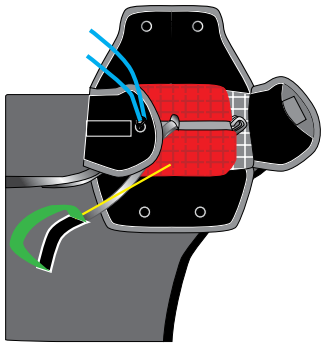
Thanks for reading carefully ! We recommend the initial rescue parachute installation is made by a qualified person.

A Upper flap grommets

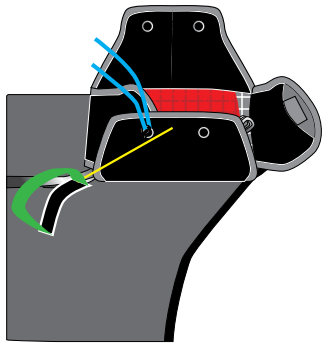
B Under flap grommets



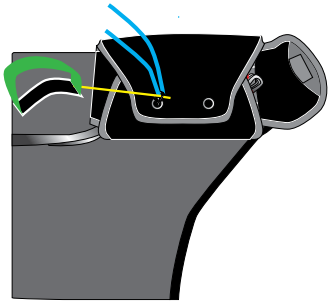
1. Place the risers' straps and the rigging lines of the parachute clearly coiled



2. Place the parachute in its pod on top of the risers and lines.

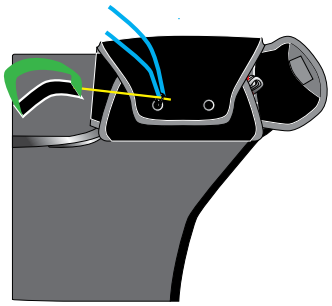


3. Take a suitable line and pass it inside the snapper on handle's side.

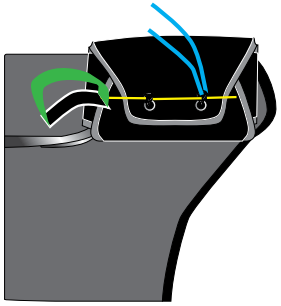


4. Pull the snapper and pass it through the B grommet.

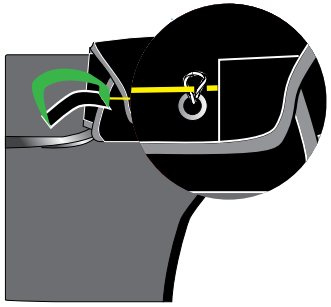
When the assembly is complete, perform a test pull of the handle to ensure the compatibility and the correct deployment of the rescue (pod + handle). Then reassemble as previously done.



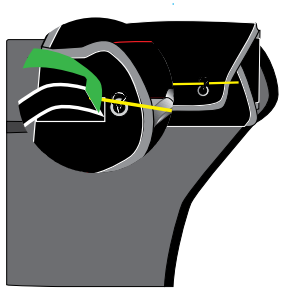
5. Pass the snapper through the C grommet and pass the handle's cable inside the hole of the down flap and finally inside the snapper. Pull away gently the line



6. Place the line through the other snapper in the A and D grommets (up and down flaps). Repeat step #5.



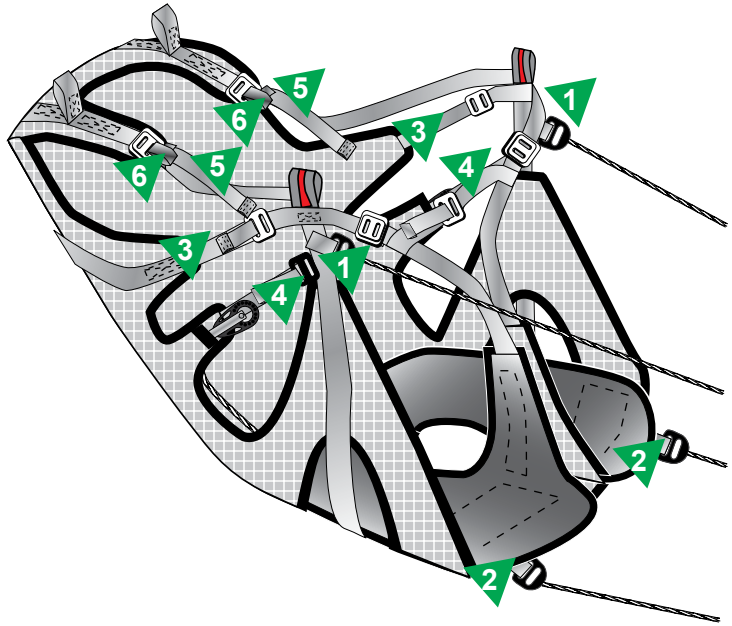
7. Put the cable trim inside the flap pocket



8. Turn down the last flap and place the handle on its velcro.

A Speedbag angle setting

With the help of the two lateral and under seating buckles, set the angle of the Speedbag around horizontal position.



B Leaning angle setting

Change the inclination by tightening the 3 webbing (to be more vertical) or by loosening it (to be more horizontal)

You can increase or decrease the lumbar support by loosening the 4 buckle

Caution : these settings are only possible under portal

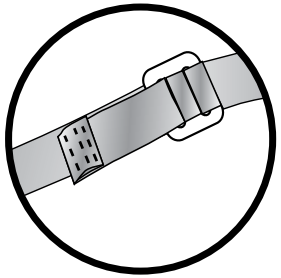
C Shoulders' straps adjustment

Tighten the shoulders' straps with the 5 webbing

Loosen with the 6 webbing

The support of the shoulders' straps greatly helps comfort. It should be set precisely.

The settings webbings and the chest strap must be IMPERATIVELY put back inside the frames. It is STRICTLY forbidden to cut or unstitch the webbings'ends as they are integral part of the harness rigidity and EN1651 certification adn consequently to your safety !



Comportement en vol

The XA13 has been designed for 2013 Redbull X-Alps. It is consequently a very performent harness.

We have lightened whenever possible but wihout any compromise on both active and passive security

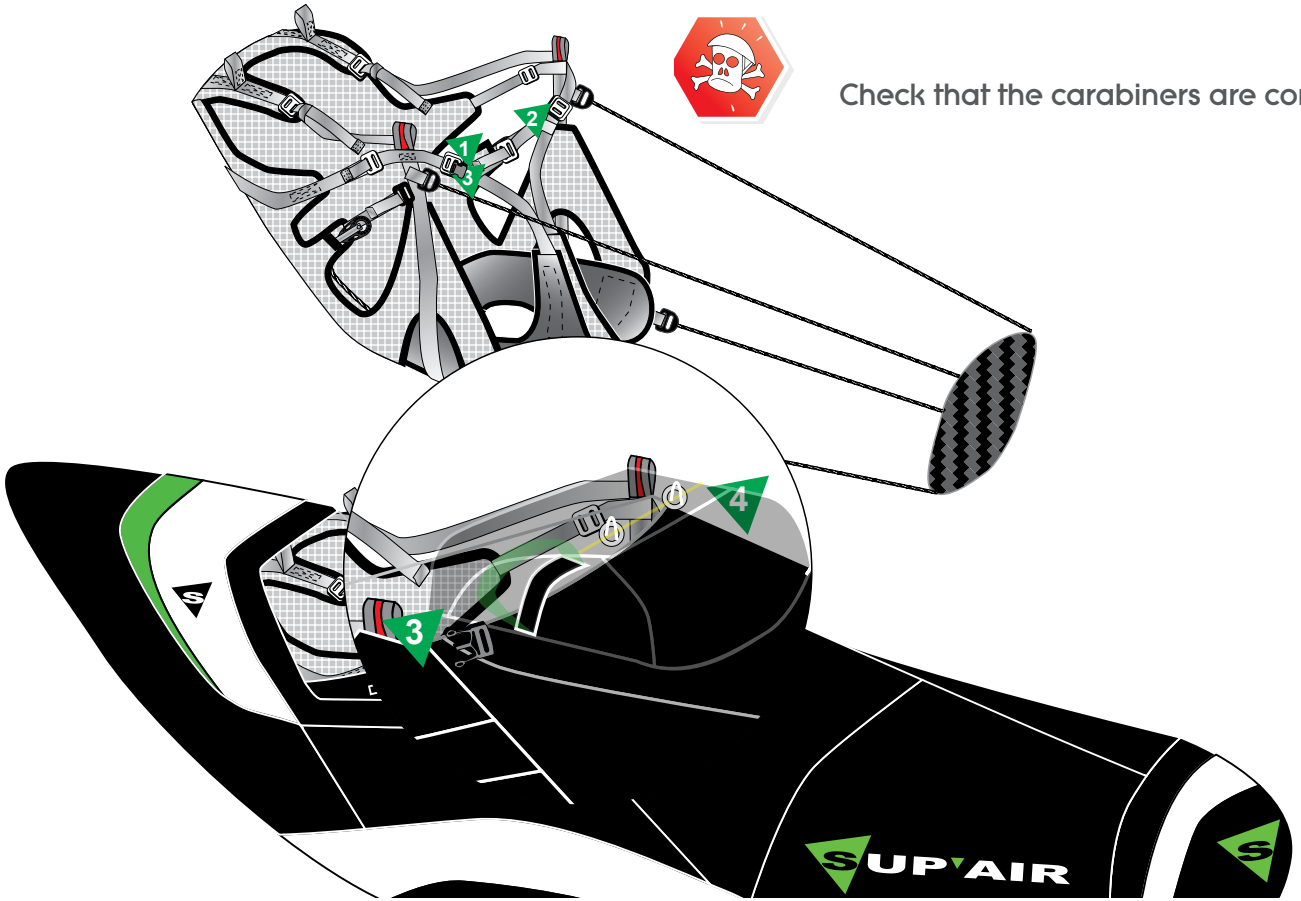
Fligh behaviour is very stable and will enable you to fly in the very strong conditions one may encounter on suche journey.

Pre-Flight control

After a thorough weather conditions analysis, when the decision to fly has been taken, fit into the harness :

- Check that the harness and the carabiners did not deteriorate.
- Check thoroughly that the rescue handle's cable end has not got outside the snappers' flaps.
- Check that your personal settings haven't changed.
- Check that all zippers and buckles are closed.
- Check that the speedbar is correctly connected and set.
- Check that no rigging line or other object comes in contact with rescue parachute handle.
- Fasten the buckles (thigh straps, safe-T-bar and ventral buckles) with application.

Check that the carabiners are correctly locked.



1. Thigh strap buckle
2. Thigh strap buckle
3. Boucle de fermeture du speedbag (volet droit)
4. Boucle de fermeture du speedbag (volet gauche)

Take-off

After being correctly fitted into your harness, fasten the left buckle (1, on braided rope) of the speedbag then fasten the second speedbag buckle (2).

During take-off, maintain a standing position and as soon as you are far enough from the ground, fetch the speedbag with one of your heels. With help of the foot-rest, push back into your harness.

Do not release your hands from the brakes when you are close to the ridge.

In flight

As soon as you are airborne, the behaviour is very instinctive and precise.

Please set the distance between the two carabiners according to aerology and to wing's manufacturer recommendations

Tightening provides more stability but less harness piloting efficiency. Be careful as it increases the risk of risers twisting. On the contrary, loosening the strap provides more efficiency but can be dangerous by turbulent aerology (increased risk of falling towards the collapsed side of your glider).

Speedbar use

We recommend a careful use of the speedbar because of an increased risk of massive collapse. Please read carefully the manual of your glider.

To use the speedbar, maintain one foot on the footrest then with the other, place your foot onto the centering space and push the first bar. This spacer helps you to obtain a symmetrical acceleration.

Cette cale vous permet une accélération symétrique.

Once your foot touches the footrest, use the other foot to push the second bar.

Landing

In order to land, during the approach, take your legs out of the speedbag in plenty of time. Stand up inside the harness and adopt an upright position in order to run to dissipate horizontal speed.

Do not land whilst in the seated position, this is dangerous.

Throwing the reserve parachute

We strongly advise you to check frequently the location of the reserve parachute's handle. To do this, we recommend that you lower your right hand following the risers. This movement should be done without looking. By doing this, you increase your chances in case something goes wrong and you need to throw the reserve parachute.

Evaluate your height from the ground. If you have a lot of altitude, it may be better to attempt to recover your wing to normal flight, But if you are in any doubt, deploy your rescue parachute.

Deploying a rescue parachute should be done only in an emergency.

With a strong, lateral and then vertical tug, pull the handle towards you and then throw the whole parachute (including the bag and handle) as hard as you can towards a clear area of sky. As soon as the parachute deploys, haul down the glider by pulling as symmetrically as you can the risers (C or d D) or on the brakes.

Be prepared to land by adopting an upright position, with knees together and legs slightly bent. Prepare to roll down with pivoting shoulders.

Wash and care of your harness

It is a good idea to wash your harness from time to time. To do this, we recommend to use a soft solvent (such as soap), use a brush and rinse thoroughly. In any case, do not use chemicals such as detergents or strong solvent because it may deteriorate the webbing, stitching and fabrics of your harness.

Lifetime

The threads that compose the webbing and fabrics used in the XA13 have been selected in order to ensure the best possible lightness/lifetime compromise. Nonetheless, in some conditions, after a long term exposure to UV and/or significant abrasion or exposure to chemicals, it is compulsory to check your harness in a certified repair centre. It is about your safety.

Repair

Though we use the highest quality materials, it is possible that your harness may eventually deteriorate through general use. If its is showing any signs of significant wear and tear, you should check it and repair it in an certified repair centre.

SUP'AIR offer a repair facility for their products beyond the end of the warranty period. Please contact us either by telephone or by E-mail sav@supair.com in order to receive a quotation.

Materials

Fabrics

RIPSTOP cordura armé vectran
Skytex 38 gr

Speedbag

LYCRA MEMBRANE

Webbings

Polyamide 20 mm (500 DaN)
Polyester 22 mm (1100 DaN)

Recycling

If you judge your XA13 has finished its life, you can separate all the plastic and metallic parts and apply up-to-date sorting rules in effect in your community. For recycling of the fabric parts, we advise you to contact your local authority that deals with fabric recycling.

Environmental friendly practices

We highly recommend you to respect as much as possible our environment while practicing paragliding and especially : not to go outside tracks, do not make unwanted noise and do not disturb the mountain areas' balance. We advise you to do this starting from the take-off.

Warranty

SUP'AIR takes the greatest care in the design and production of its products. SUP'AIR guarantees its products 5 years (from purchase date) against any defect or design fault occurring during normal use. Any damage or degradation resulting from incorrect or abusive use, abnormal exposure to aggressive factors, including, but not limited to; high temperature, intense sun exposure, high humidity etc will invalidate this warranty

Disclaimer

Paragliding is an activity that requires, skill, specific knowledge and sound judgement. Be careful, learn in certified schools, subscribe an adequate insurance policy as well as a flying license and make sure your skill match the conditions. SUP'AIR cannot be held responsible for your paragliding decisions or activities

This SUP'AIR product has been designed exclusively for paragliding. Any other activity such as sky-diving or BASE jumping is absolutely forbidden.

Pilot's gear

This is essential that you carry a helmet, suitable boots and clothing. Taking a reserve parachute suitable for your weight and correctly connected to your harness is also very important.

This page will help you to record all the life stages of your XA13 harness.

Purchase date	
Owner's name	
Name and stamp of the shop	

☐ Care
☐ Resale

Date	

Workshop's name/ Buyer's name

Care
Resale

Date	

Workshop's name/ Buyer's name

Care
Resale

Date	

Workshop's name/ Buyer's name

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Resale

Date	

Workshop's name/ Buyer's name

SUP'AIR

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